

FGF1 Break Apart FISH Probe Kit

Introduction

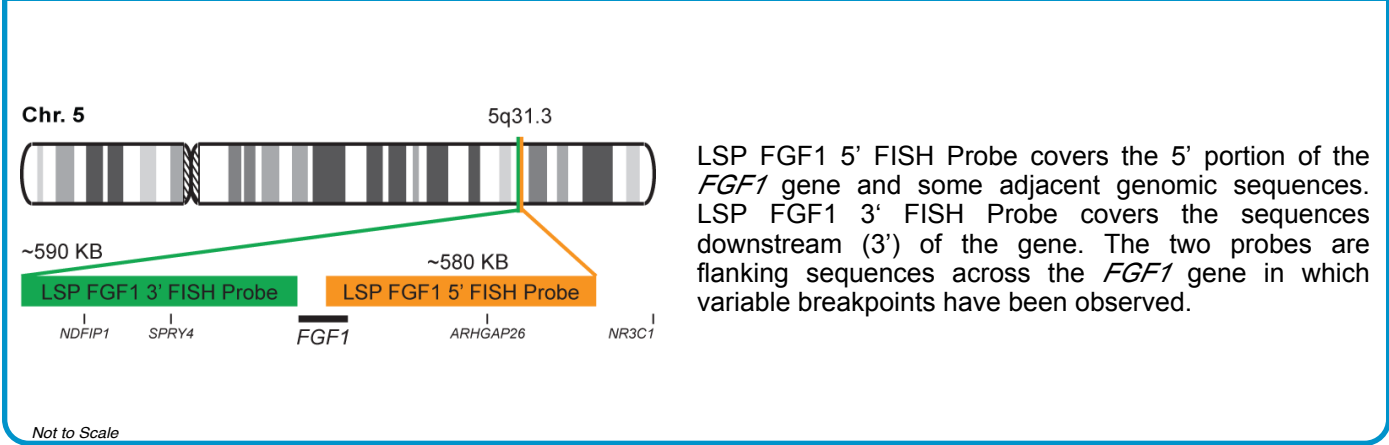
The FGF1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *FGF1* gene located on chromosome band 5q31.3. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other *FGF1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *FGF1* gene – also known as *AFGF*, *ECGF*, *ECGF-beta*, *ECGFA*, *ECGFB*, *FGF-1*, *FGF-alpha*, *FGFA*, *GLIO703*, *HBGF-1* or *HBGF1* – have been observed in gastrointestinal tumors, breast cancer and other solid tumor types, and other conditions such as nerve injury and cardiac ischemia.

Intended Use

To detect rearrangements in the human *FGF1* gene located on chromosome band 5q31.3.

Cont.	Color
LSP FGF1 5' FISH Probe LSP FGF1 3' FISH Probe	CytoOrange CytoGreen

Probe Design



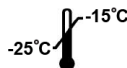
Cat. No.	Volume
CT-PAC159-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2F*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Gospodarowicz D. *Nature*. 249(453):123-7 (1974).
 2) Pellegrini L, et al. *Nature*. 407(6807):1029-34 (2000).
 3) Olsen SK, et al. *Proc Natl Acad Sci U S A*. 101(4):935-40 (2004).
 4) Beenken A & Mohammadi M. *Nat Rev Drug Discov*. 8(3):235-53 (2009).
 5) Itoh N & Ornitz DM. *J Biochem*. 149(2):121-30 (2011).



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